

NOVEMBER/DECEMBER 2025

**23USEL24 — TROUBLE SHOOTING AND
MAINTENANCE OF AUDIO AND VIDEO
EQUIPMENTS (SEC III)**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Mention the name of recording devices.
2. State the mechanism behind optical recording.
3. List out the components of PA system.
4. What is stereophony?
5. Write the functions of antenna.
6. What are the primary colours of a television?
7. How much the storage capacity of a DVD?
8. What is ultra HD format?
9. Expand CCTV and LCD TV.
10. What is plasma television?



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the role of LASER in optical reading/writing on a compact disc.

Or

- (b) Mention the advantages of compact disc.

12. (a) Explain the needs of public addressing system.

Or

- (b) Briefly describe the function of microphone.

13. (a) Explain the recent development in television technology.

Or

- (b) Write short note on history of televisions.

14. (a) Differentiate ordinary television and HD television.

Or

- (b) Write a short note on MAC receiver.

15. (a) State the function of set top box.

Or

- (b) Write short note on digital television.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the methods of recording and reproduction of digital data on a compact disc.

17. Illustrate the block diagram of public addressing system and describe its components.

18. Illustrate the working mechanism of television receiver system.

19. Exemplify with block diagram of MAC receiver and explain its functions.

20. Describe the working mechanism of DTH network.